

# Relaunch of HaloACL

SMWCon Fall 2014

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# Motivation for access control

- Interesting for enterprises using MW / SMW as knowledge base
- Important to restrict access for specific wiki pages or property values
- Sensitive information only readable and editable by certain user groups (CEOs, Developer, Support...)

## Requirements for AC presented in use case

- User based and group based access control
- AC protection for
  - ▮ Single pages
  - ▮ Namespaces
  - ▮ Semantic properties
- Secure
- AC plugin working with current MW / SMW versions
- Easy to use → GUI

# Security issues with authorization extensions

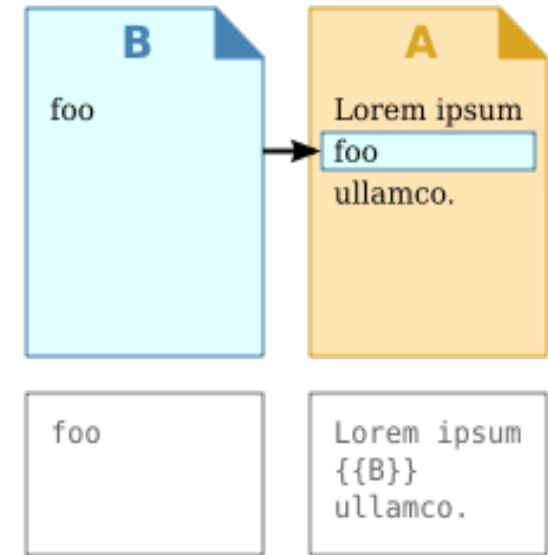
## ■ Transclusion / Inclusion

Access restricted pages by embedding restricted articles

## ■ XML/RDF export

## ■ Preloading:


Circumvent the restriction using *editintro=* or *preload=* URI parameters in edit mode?



# Mediawiki.org lists 12 extensions...

Extension	Pure extension	Works with caching	Works with MediaWiki groups	Page-based access control	Namespace-based access control
Extension:CrudeProtection	Yes	Yes	No (User Based)	Yes	No
Extension:Group Based Access Control	Yes	No	Yes	Yes	No
Extension:Halo Access Control List	No	Yes	Yes	Yes	Yes
IntraACL <a href="#">↗</a>	No	Yes	Yes	Yes	Yes
Extension:Lockdown	Yes	Yes	Yes	No	Yes
Extension:NSFileRepo	Yes	Yes	Yes	No	Yes
Extension:Page access restriction	No	No	Yes	Yes	Yes
Extension:PageProtectionPlus	Yes	No	Yes	Yes (really section based)	No
Extension:PageSecurity	No	No	Yes	Yes	No
Extension:PrivatePageProtection	Yes	Yes	Yes	Yes	No
Extension:Simple Security	Yes	No	Yes	Yes	Yes
Extension:WhiteList	Yes	Yes	No (user based)	Yes	No

# ...but:

Extension	Pure extension	Works with caching	Works with MediaWiki groups	Page-based access control	Namespace-based access control
<del>Extension:CrudeProtection</del>	<b>Archieved</b>				
<del>Extension:Group Based Access Control</del>	<b>Archieved</b>				
Extension:Halo Access Control List	No	Yes	Yes	Yes	Yes
IntraACL 	No	Yes	Yes	Yes	Yes
<del>Extension:Lockdown</del>	<b>No single page protection</b>				
<del>Extension:NSFileDepo</del>					
<del>Extension:Page access restriction</del>	<b>Outdated</b>				
<del>Extension:PageProtectionPlus</del>	<b>No protection of NS</b>				
<del>Extension:PageSecurity</del>	<b>nor semantic properties</b>				
<del>Extension:PrivatePageProtection</del>					
<del>Extension:Simple Security</del>					
<del>Extension:WhiteList</del>	<b>No group policy</b>				

## How to proceed?

- HaloACL: has it all – but is outdated:  
MediaWiki 1.19 → current Version: 1.23  
SMW 1.7 → current Version: 2.0
- IntraACL: is up to date – but no property protection

Decision:

Update HaloACL for current versions

## How does it work?

Go to the HaloACL Special Page:

[YourSMWiki.com/index.php/Special:HaloACL](http://YourSMWiki.com/index.php/Special:HaloACL)

Follow 4 steps:

- 1) Chose what to protect (Page, NS, Property, Category)
- 2) Edit rights and users/groups
- 3) Who can modify this rights?
- 4) Save

Also possible:

Manage groups, AC lists, templates, general AC settings

# How does it work? (2)

## HaloACL

Global Permissions
Create ACL
Manage ACLs
Manage Groups
Whitelist

Create standard ACL
Create ACL template
Create ACL default user template

You can create an Access Control List (ACL) in the following four steps. Click the help icon at any time to get help about each step.

1. General ?

Protect: ☐ Page ☒ Property ☐ Pages in Namespace ☐ Pages in Category

Name:

2. Rights ?

Create right
Add template

[ Right ] - fullaccess for Woj
Not saved

Name:



Rights:
☒ Full access
☒ Read
☒ Edit
☒ Edit with form
☒ WYSIWYG
  
☒ Create
☒ Move
☒ Delete
☒ Annotate

Right description:

Autogenerate description text: ☒ on ☐ off

Define for:
☒ Me
☐ Individual user and/or groups of user
  
☐ All Users
☐ All Registered Users
☐ All Anonymous Users

Expand the box below, if you like to allow other users or groups to modify this access control list.

Modification Rights for U: Woj		Default												
<b>Right description:</b> <input type="text"/> modification rights  Autogenerate description text: <input checked="" type="radio"/> on <input type="radio"/> off														
<div style="display: flex; justify-content: space-between;"> <span>Select / Deselect</span> <span>Assigned</span> </div>														
Groups and Users	Select	User: 1 - 3 from 3 in Users Select												
Filter in groups: <input type="text"/>		Filter: <input type="text"/>												
<div>  Groups <ul style="list-style-type: none"> <li>Gruppe/Unter-Wojs</li> </ul> </div> <div></div>		<table border="1"> <thead> <tr> <th>User</th> <th>Group</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>Woj</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Woj2</td> <td>Gruppe/Unter-Wojs</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Woj3</td> <td>Gruppe/Unter-Wojs</td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	User	Group	Action	Woj		<input checked="" type="checkbox"/>	Woj2	Gruppe/Unter-Wojs	<input type="checkbox"/>	Woj3	Gruppe/Unter-Wojs	<input type="checkbox"/>
User	Group	Action												
Woj		<input checked="" type="checkbox"/>												
Woj2	Gruppe/Unter-Wojs	<input type="checkbox"/>												
Woj3	Gruppe/Unter-Wojs	<input type="checkbox"/>												
Users		<div> &lt;&lt; first    &lt; prev    <b>1</b>    next &gt;    last &gt;&gt; </div>												
Reset right		Save right												

# Result: View with and without permission

Woj Talk Preferences Watchlist Contributions Log out

Page Discussion Read Edit View history ☆ Search

## Ham Pizza

This is the page for Ham Pizza.

Pizza Ham needs to be done with Cheese and Ham.

This page was last modified on 28 September 2014, at 16:26.

Create account Log in

Page Discussion Read View source View history Search

## Ham Pizza

This is the page for Ham Pizza.

Pizza Ham needs to be done with \*\*\*⚠ and \*\*\*⚠.

This page was last modified on 28 September 2014, at 16:26.

This page has been accessed once.

Privacy policy About MW-22.10 Disclaimers

Powered By MediaWiki Semantic MediaWiki

# Result: Export with permission

```

<namespace key="15" case="first-letter">Kategorie Diskussion</namespace>
<namespace key="102" case="first-letter">Attribut</namespace>
<namespace key="103" case="first-letter">Attribut Diskussion</namespace>
<namespace key="104" case="first-letter">Type</namespace>
<namespace key="105" case="first-letter">Type talk</namespace>
<namespace key="108" case="first-letter">Konzept</namespace>
<namespace key="109" case="first-letter">Konzept Diskussion</namespace>
<namespace key="300" case="first-letter">Rechte</namespace>
<namespace key="301" case="first-letter">Rechte Diskussion</namespace>
</namespaces>
</siteinfo>
<page>
  <title>Pizza</title>
  <ns>0</ns>
  <id>3</id>
  <revision>
    <id>21</id>
    <parentid>10</parentid>
    <timestamp>2014-09-25T14:42:20Z</timestamp>
    <contributor>
      <username>Woj</username>
      <id>1</id>
    </contributor>
    <text xml:space="preserve" bytes="117">Das ist die Seite von Pizza!
Pizza wird oft serviert mit [[HatBelag::Käse]] und [[HatBelag::Salami]]</text>
    <shal>b26uedgcplri22s9i3aglkahiw2rhx3</shal>
    <model>wikitext</model>
    <format>text/x-wiki</format>
  </revision>
</page>
</mediawiki>

```

# Result: Export without permission

```
<mediawiki xmlns="http://www.mediawiki.org/xml/export-0.8/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.mediawiki.org/xml/export-0.8/ http://www.mediawiki.org/xml/export-0.8" xml:lang="de">
  <siteinfo>
    <sitename>MW-22.10</sitename>
    <base>http://localhost/mw22.10/index.php/Hauptseite</base>
    <generator>MediaWiki 1.22.10</generator>
    <case>first-letter</case>
    <namespaces>
      <namespace key="-2" case="first-letter">Medium</namespace>
      <namespace key="-1" case="first-letter">Spezial</namespace>
      <namespace key="0" case="first-letter" />
      <namespace key="1" case="first-letter">Diskussion</namespace>
      <namespace key="2" case="first-letter">Benutzer</namespace>
      <namespace key="3" case="first-letter">Benutzer Diskussion</namespace>
      <namespace key="4" case="first-letter">MW-22.10</namespace>
      <namespace key="5" case="first-letter">MW-22.10 Diskussion</namespace>
      <namespace key="6" case="first-letter">Datei</namespace>
      <namespace key="7" case="first-letter">Datei Diskussion</namespace>
      <namespace key="8" case="first-letter">MediaWiki</namespace>
      <namespace key="9" case="first-letter">MediaWiki Diskussion</namespace>
      <namespace key="10" case="first-letter">Vorlage</namespace>
      <namespace key="11" case="first-letter">Vorlage Diskussion</namespace>
      <namespace key="12" case="first-letter">Hilfe</namespace>
      <namespace key="13" case="first-letter">Hilfe Diskussion</namespace>
      <namespace key="14" case="first-letter">Kategorie</namespace>
      <namespace key="15" case="first-letter">Kategorie Diskussion</namespace>
      <namespace key="102" case="first-letter">Attribut</namespace>
      <namespace key="103" case="first-letter">Attribut Diskussion</namespace>
      <namespace key="104" case="first-letter">Type</namespace>
      <namespace key="105" case="first-letter">Type talk</namespace>
      <namespace key="108" case="first-letter">Konzept</namespace>
      <namespace key="109" case="first-letter">Konzept Diskussion</namespace>
      <namespace key="300" case="first-letter">Rechte</namespace>
      <namespace key="301" case="first-letter">Rechte Diskussion</namespace>
    </namespaces>
  </siteinfo>
</mediawiki>
```

# Result: Fulltext Search

Special page

## Search results



Search

[Content pages](#)

[Multimedia](#)

[Help and Project pages](#)

[Everything](#)

[Advanced](#)

Create the page "**Serviert**" on this wiki!

[Pizza](#)

Pizza wird oft **serviert** mit [[HatBelag::Property value protected by HaloACL]] und [[HatBelag::Property value protected by HaloACL]]

117 B (21 words) - 16:42, 25 September 2014

View (previous 20 | next 20) ([20](#) | [50](#) | [100](#) | [250](#) | [500](#))

# Where can I get it?

HaloACL can be found here:

<https://github.com/HaloACL/>

Feedback (errors, suggestions, etc.) is very welcome:

[smw@wojteque.de](mailto:smw@wojteque.de) or via Project page @ Github

Thank you!